

18 January 1985

Research and Development

THE INTELLIGENCE ROLE IN RESEARCH, DEVELOPMENT, TEST AND EVALUATION (RDT&E)

This INOI establishes policies, procedures and management responsibilities for research, development, test and evaluation (RDT&E) within HQ USAF Intelligence and Air Force Intelligence Service (AF/IN-AFIS). It establishes standardized procedures for staffing and coordinating management support to RDT&E activities, and the processing of new requirements or contractor proposals for research and development (R&D). This INOI applies to AFIS activities as concurred in by the Commander, AFIS.

1. References:

- a. AFR 23-45, Air Force Intelligence Service (AFIS).
- b. AFR 57-1, Statement of Operational Need.
- c. AFR 57-4, Retrofit Configuration Changes.
- d. AFR 57-5, Quick Reaction Capability.
- e. AFR 80-1, Air Force Research and Development.
- f. AFR 80-2, Documents Used in the Management of Air Force Research and Development.
- g. AFR 80-25, Threat Simulator Validation.
- h. AFR 80-38, Management of the Air Force Survivability Program.
- i. AFR 207-1, The Air Force Physical Security Program.
- j. AFR 200-13, Threat Support to the Weapons Acquisition Process.
- k. AFR 800-2, Acquisition Program Management.
- l. AFR 800-14, Management of Computer Resources in Systems.

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Approved by: Col J. H. Meyer

Writer-Editor: TSgt G. McDuffie

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- m. AFR 800-25, Acquisition Program Baselineing and Cost Capping.
- n. AFR 800-29, Application of Specialized Management.
- o. HOI 800-2, Program Management Direction.
- p. HP 21-1, DAF Organizations and Functions.
- q. AFISR 23-1, Organization and Functions - Air Force Intelligence Service.
- r. FAR 15.5 and AF FAR Supplement 15.5, Unsolicited Proposals.

2. Policy:

a. The Assistant Chief of Staff Intelligence (ACS/I) views the research and development process as a key element in support of the Air Force mission, and considers the role of Intelligence critical to this process.

b. Management of RDT&E programs within the Air Force is the primary responsibility of the Deputy Chief of Staff/Research, Development, and Acquisition (AF/RD). This INOI is designed to enhance the cited references and establish functional management responsibilities within AF/IN-AFIS for the planning and execution of RDT&E programs requiring Intelligence support. Formal working relationships between AF/IN-AFIS, the operational and R&D communities, and other Government agencies are encouraged to maintain cognizance and active participation in development and acquisition efforts impacting operational and future Intelligence systems.

c. Timely, accurate, and detailed Intelligence is a vital element in establishing requirements and priorities for new systems. Intelligence provides much of the rationale for planning and initiating RDT&E efforts and continues to impact these efforts throughout the development and system life cycle. Thus, AF/IN-AFIS must initiate and maintain close liaison with RDT&E managers to advise them of changes in threats, related technologies, or other situations which impact systems or capabilities undergoing development.

d. As a matter of policy, Air Force Intelligence programs for and manages RDT&E resources within the National Foreign Intelligence Program (NFIP) as required to meet Intelligence needs of the National Command Authorities (NCA). To meet the Intelligence needs of the operational commanders, AF/IN-AFIS works within the Air Force Board Structure to determine proper placement and programming authority for RDT&E efforts within the major force programs to ensure proper management of Intelligence systems requirements and resources. AF/IN-AFIS will assume resource management responsibilities for those RDT&E efforts requiring direct program management involvement by Air Force Intelligence.

3. Responsibilities:

a. AF/IN-AFIS activities are responsible for ensuring timely and adequate Intelligence support is provided to meet operational needs of the Air Force. In their respective areas of interest, AF/IN-AFIS activities are responsible for maintaining a close interface with Air Staff, major commands (MAJCOMs), separate operating agencies (SOAs), and other DOD and Federal agencies to provide threat support and advise on Air Force requirements and priorities for Intelligence systems development. To support this requirement, AF/IN-AFIS activities must be actively involved in all phases of RDT&E from requirements definition and validation through development and operational testing.

b. AF/IN-AFIS elements also have the responsibility to advise the ACS/I, the Air Staff Board (ASB) and various ASB panels, the Program Review Committee (PRC), the Force Structure Committee (FSC), the Director of Central Intelligence (DCI), and other Government agencies on requirements, needs, and priorities concerning the development and acquisition of new Intelligence systems. This may include support to the Office of the Secretary of Defense (OSD), DCI and Congressional requests for information on Intelligence-related RDT&E programs.

c. Specific AF/IN (Air Staff) and AFIS responsibilities follow.

(1) The Directorate of Intelligence Plans and Systems (AF/INY):

(a) The Planning Division (AF/INYX) is the AF/IN focal point for RDT&E activities, to include development of plans defining Intelligence research, development and acquisition objectives and requirements. AF/INYX acts as the AF/IN single point of contact for the processing and coordination of RDT&E policy, requirements, program directives and other RDT&E management documents. The division continuously monitors near term MAJCOM and SOA Intelligence system needs and shortfalls, including management of resources and programs in the areas of automated data processing, training, and communications support to operational Intelligence units and systems. A representative from AF/INYX will serve as an advisor to the RDT&E panel of the Air Staff Board, as the AF/INY member of the HQ USAF Requirements Assessment Group, and as focal point for Requirements Review Group matters.

(b) The Systems Division (AF/INYS) manages NFIP and Tactical Cryptologic Program (TCP) RDT&E resources and programs. Responsibilities include program advocacy and production of program directives and other documentation for RDT&E efforts within the NFIP and TCP devoted to development of new and improved Intelligence collection, exploitation and production systems. This includes cryptologic activities, active and passive electro-magnetic, infra-red, radar and electro-optical sensors, imagery programs, sonic sensors, Foreign Materiel Program (FMP) and Human Resources Intelligence (HUMINT) activities. The division also acts as Air Staff focal point for Consolidated Cryptologic Program (CCP) matters pertaining to Signals Intelligence (SIGINT) RDT&E efforts.

18 January 1985

(c) The Resource Management Group (AF/INZR) is responsible for monitoring the obligation status of NFIP R&D funding to ensure full utilization of programmed resources within the allowable time frame. AF/INZR also administers reprogramming actions to ensure full utilization of available total obligation authority (TOA). AF/INZR represents AF/IN on the Operating Budget Review Committee (OBRC) of the Air Staff Board Structure.

(d) The Electronic Combat Intelligence Group (AF/INYW) is responsible for:

1. Managing/monitoring Intelligence programs supporting RDT&E efforts to enhance USAF electronic combat (EC) capabilities. AF/INYW provides Intelligence support throughout the development and acquisition phases for new EC systems and ensures Intelligence-related EC plans, studies, and analyses are necessary and valid.

2. Providing guidance and advocacy for the development of new programs and procedures to enhance all-source Intelligence support to EC. The group acts as functional point of contact (POC) for Intelligence policy and requirements supporting EC operations.

3. Serving as AF/IN principal POC for test and evaluation (T&E) activities, including management of the AFIS Operating Location (OL) at the Air Force Operational Test and Evaluation Center (AFOTEC).

(2) The Directorate of Estimates (AF/INE):

(a) The General Threat Division (AF/INEG) is the AF/IN-AFIS focal point for the management of threat support to RDT&E activities related to the weapons acquisition cycle. This function is accomplished primarily through preparation of the threat volume of the Air Force Planning Guide and the validation of threat sections of system requirements documents such as statements of operational need (SON), system operational concepts (SOCs), threat assessment reports (TARs), and system threat assessment reports (STARs). In this regard, AF/INEG prepares, reviews, evaluates, and coordinates actions concerning force projections, tactics and doctrine to ensure full and accurate treatment of the threat. AF/INEG representatives serve as members of the Force Structure Committee, as advisors to the RDT&E panel of the Air Staff board, and as members of the HQ USAF Requirements Assessment Group.

(b) The Weapons Space and Technology Division (AF/INET) is responsible for providing assessments of the technological capabilities of foreign weapon systems, foreign forces, weapon forecasts, and future weapon systems technologies for inclusion in threat sections of appropriate RDT&E documents. The division provides the primary Air Force Intelligence representative to the DCI Weapons and Space Systems Intelligence committee (WSSIC) and, as appropriate, the WSSIC subcommittees. AF/INET supervises scientific and technical (S&T) Intelligence production in support of Air Force programs. Additionally, the division produces all-source Intelligence estimates on the technological capabilities of all foreign military R&D efforts.

(c) The Advanced Weapons Research and Development Group (AF/INEK) is responsible for providing threat support to specific weapon system programs as designated by AF/INY and AF/INE. The group also serves as the Air Force focal point for specially caveated Intelligence materiel storage, security, evaluation and dissemination. AF/INEK ensures specially caveated Intelligence data is provided to authorized Air Force activities and integrated into appropriate Intelligence analyses.

(3) The Directorate of Targets (AFIS/INT) is responsible for the management of target Intelligence/target materiel support related to RDT&E activities for both weapons and Intelligence systems development and acquisition. Included are development of mapping, charting, and geodesy (MC&G) requirements and assessments of targeting and MC&G support in the area of target/target system analysis and data bases; targeting support for Command, Control and Communications Countermeasures (C³CM) and suppression of enemy air defense (SEAD); nuclear/non-nuclear weaponeering (including software); mission planning; target detection, location, identification, and damage assessment; exploitation of Defense Mapping Agency (DMA) products; and target materiel production. The directorate monitors and advises on development efforts in such areas as radar simulation/prediction, navigation aids, cockpit displays and flight information, weapons effectiveness data for weaponeering methodologies, development and fusion of targeting, weaponeering, and geographical data bases, and state-of-the-art terrestrial sciences.

(4) The Directorate of Intelligence Data Management (AFIS/IND) is responsible for managing, reviewing, and coordinating on the development and operation of Intelligence automated data processing (ADP) systems. The directorate is the AF/IN-AFIS focal point for technical expertise on Intelligence ADP, and provides advice and technical assistance to AF/INY, the Defense Intelligence Agency (DIA), Air Staff and the MAJCOMs on all aspects of Intelligence data management. AFIS/IND monitors and selectively participates in Intelligence automation RDT&E efforts conducted by Air Force Systems Command (AFSC) product divisions and laboratories to ensure logistics and training provisions are sufficient to transition ADP systems from development to operational status. The directorate also acts as accreditation authority on ADP operations for Air Force and contractor sensitive compartmented information (SCI) ADP systems.

(5) The Air Force Special Activities Center (AFSAC) is responsible for establishing requirements, reviewing and coordination on all RDT&E efforts supporting Air Force HUMINT and Foreign Materiel Program (FMP) activities. AFSAC provides their RDT&E requirements to AF/INYSH annually for validation and programming action.

(6) The Directorate of Joint Services Support (AFIS/INU), in coordination with AF/INY is responsible for monitoring and/or managing RDT&E efforts in support of Joint Chiefs of Staff Memorandum 718-83.

(7) The Directorate of Security and Communications Management (AFIS/INS) is responsible for management of SCI resources and support related to RDT&E activities. The directorate acts as the USAF focal point for the creation of SCI billets, the adjudication of personnel for access to SCI programs, the creation and management of SCI security offices, the establishment and accreditation of SCI facilities and communications/ADP systems, and SCI support to special access programs. Each organization involved with or initiating RDT&E programs is responsible for interfacing with AFIS/INS in sufficient time to permit completion of required SCI actions IAW AFR 207-1 and USAFINTEL 201-XX series publications.

4. Procedures:

a. In accordance with procedures defined in the cited references and other established guidance documents, each AF/IN-AFIS designated OPR, as appropriate will:

(1) Assign functional POCs for all RDT&E efforts involving Intelligence support in response to outside requests or in conjunction with planning, programming, and budgeting responsibilities.

(2) Review requests for Intelligence support to RDT&E Programs. Determine the impact and capability of Intelligence to support requests in such areas as current Intelligence programs, etc. If the request calls for efforts which will duplicate or conflict with established programs, or is inconsistent with AF/IN policy, the OPR will return the request to the office-of-origin with reasons for the determination. If Intelligence support is required, the OPR will initiate necessary planning and programming actions and/or provide direction to satisfy the request.

(3) Prepare and coordinate budget descriptions and resource submissions with other affected offices and organizations. Where AF/IN-AFIS elements are designated as office of collateral responsibility (OCR), review and coordinate on program documentation involving Intelligence support or support to Intelligence systems RDT&E.

(4) Respond to Congressional, OSD, DCI or Air Force inquiries regarding Air Force Intelligence programs and support to national programs.

(5) Prepare documentation and support Congressional testimony as requested by OSD, ACS/I, Air Staff, and other national program managers.

(6) Validate or prepare threat data in support of RDT&E and acquisition programs.

(7) Review program budget submissions for adequacy and compatibility with Air Force Intelligence RDT&E planning objectives. Assign members to appropriate Air Force Board Structure and NFIP budget deliberation panels; advise, as appropriate, on Intelligence requirements, priorities, and resource matters.

(8) Participate in and/or manage periodic program reviews to ensure program objectives are being met. Monitor RDT&E efforts and provide coordination and assistance to maintain an integrated, effective R&D program. Evaluate programs for risk, affordability, and supportability in meeting development, acquisition, and operational requirements.

(9) Perform studies and analyses as required to support planning initiatives, investigate alternatives, resolve problems, or exploit technologies having application to Intelligence systems.

(10) Issue program directives and guidance to MAJCOMs, SOAs, and other elements in supporting planning initiatives, resource allocation, priorities, and requirements validation.

(11) Respond to national tasking for the preparation and submission of resource requirements. Participate in national-level program reviews, committees and working groups. Review and evaluate national, service, or other agency requirements and programs to preclude duplication of effort and to ensure mutually supportive programs.

(12) Maintain close liaison with appropriate elements of the R&D and user communities and industry to stimulate and encourage satisfactory solution of technical problems related to collection, production and application of Intelligence information.

b. Unsolicited contractor proposals will be staffed IAW appropriate Defense acquisition regulations. The OPR will ascertain the proposal's validity and its relationship, if any, to an Intelligence requirement or operational deficiency. When necessary, a preliminary feasibility study may be requested. The feasibility study will include, but not be limited to

(1) A statement of the requirement and how the proposal satisfies the requirement.

(2) A statement of the threat, as appropriate.

(3) Available off-the-shelf capability.

(4) Existing or planned tasks, projects or systems intended to satisfy a similar request or proposal.

(5) Estimated time required for development.

(6) Cost estimates.

c. Staff coordination: Within their respective directorates, AF/INXX and AF/INEG are responsible for coordination and staffing of non-AF/IN-AFIS generated RDT&E program management documentation requiring Air Staff review and approval.

18 January 1985

This includes quick reaction capability (QRC) requirements, statements of operational need (SON), justification for major system new starts (JMSNSs), system operational concepts (SOCs), and program management directives (PMDs). AF/INX and AF/INEG will ensure a consolidated and coordinated AF/IN position is developed and presented on all documentation submitted for formal review. For internally generated RDT&E documentation, the AF/IN-AFIS functional OPR, in coordination with his or her AF/INX or AF/INEG functional counterpart, is responsible for necessary preparation and staffing. On those programs where AF/IN-AFIS is the office of collateral responsibility (OCR), AF/INX/INEG and the AF/IN-AFIS functional OPR will work with the Air Staff OPR to ensure actions are fully reviewed and coordinated.

OFFICIAL

JAMES C. PFAUTZ, Maj Gen, USAF
Assistant Chief of Staff, Intelligence

ROBERT D. ANDERSON, Major, USAF
Exec to ACS/Intelligence